

CLAIMS

1. A drug delivery system (100) comprising a delivery device (101) and an indicating device (102), the delivery device comprising:
- 5 - a reservoir (111) containing an amount of a liquid drug,
- means (111, 121) for delivering the drug into a body of a user in accordance with a delivery rate value or profile,
- first processor means (121), and
- first transmission means (131) cooperating with the first processor means for
10 transmitting data information to receiving means in the indicating device,
the indicating device comprising:
- first receiving means (132) for receiving data information transmitted from the delivery device,
- memory means (124) for storing data information,
15 - timer means (123),
- second processor means (122) adapted for calculating an estimated time-dependent value based upon received data information and time information from the timer means, and
- indication means (112) cooperating with the second processor means for indicating a calculated value.
- 20
2. A drug delivery system as defined in claim 1, wherein the first processor means is adapted for:
- transmitting data information representing a current amount of drug contained in the reservoir, the second processor means being adapted for:
- 25 - storing data information representing the current amount of a drug,
- calculating a time-dependent estimate for the drug on the basis of the current amount, the time information, and a delivery rate value or profile stored in the memory means.
- 30
3. A drug delivery system as defined in claim 1, wherein the first processor means is adapted for:
- transmitting data information representing an initial amount of drug contained in the reservoir, a current amount of the drug and a delivery rate value or profile for the drug, the second processor means being adapted for:
- 35 - storing the received data information,

- calculating a time-dependent estimate for the drug on the basis of the current amount, the time information, and the delivery rate value or profile.
4. A drug delivery system as defined in claim 3, wherein the second processor means is adapted for calculating at least one of the following values: the amount of drug delivered, the amount of drug remaining in the reservoir.
5. A drug delivery system as defined in claim 1, wherein the second processor means is adapted for:
- determining the time lapsed since the last data information was received, and
 - indicating information indicative of the time lapsed.
6. A drug delivery system as defined in any of the previous claims, wherein the delivery device further comprises:
- second receiving means (151) for receiving commands transmitted from the indicator device, the indicator device further comprising:
 - second transmission means (152) for transmitting commands to the delivery device, the second transmission means being controllable by the user and/or by the second processor means.
7. A drug delivery system as defined in claim 6, wherein the first transmission means is operated in response to commands received from the second transmission means.
8. A drug delivery system as defined in claim 6, wherein the first transmission means is operated in response to commands received from the second transmission means operated by the second processor means at predetermined intervals.
9. A drug delivery system as defined in claim 6, wherein the indicating device further comprises means (312, 313) for inputting a bolus command, the second processor means being adapted for transmitting the bolus command to the delivery device, wherein the delivery device is adapted for delivering a bolus in response to the bolus command and for transmitting data information to the indicating device confirming that the bolus command has been received, and wherein the second processor means is adapted for calculating the time-dependent estimate for the drug utilizing the additional data information for the bolus command.

10. A drug delivery system as defined in claim 1, wherein the first processor means is adapted to transmit ID data information indicative of a unique delivery device, the second processor means being adapted for checking the ID data information before storing updated data information in the memory means.
11. A drug delivery system as defined in claim 1, wherein the data information stored in the memory means can be indicated by the indication means.
12. A drug delivery system as defined in claim 1, wherein the indication means is in the form of a display (320) allowing continuous display of an estimated value.
13. An indicating device (102, 202, 302), comprising:
- receiving means for receiving a signal containing data information,
 - memory means for storing data information,
 - timer means,
 - processor means, where the processor means is adapted for calculating an estimated time-dependent value based upon received data information and time information received from the timer means, and
 - indication means for indicating a calculated value.
14. An indicating device as defined in claim 13, wherein the receiving means is adapted for receiving a remotely generated signal containing data information.
15. An indicating device as defined in claim 13, comprising the features of the indicating device as defined in any of the previous claims.
16. An indicating device as defined in claim 13, in combination with a delivery device comprising:
- a reservoir containing an amount of a liquid drug,
 - means for delivering the drug into a body of a user in accordance with a delivery rate value or profile,
 - means for providing data information to the indicating device, the means being readable or actuatable by the indicating device.